

Howard County Department of Fire and Rescue Services

GENERAL ORDER

GENERAL ORDER 320.18

EMS Standardized Inventories

EMFRGENCY SERVICES BURFAU

Issue Date: January 16, 2018

Revision Date: N/A

APPLICABILITY

2 All operational personnel

POLICY

- 4 The Howard County Department of Fire and Rescue Services (Department) shall maintain an
- 5 EMS Standardized Inventory on all Department response-ready vehicles and in Howard County
- 6 facilities that house Department offices.

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- 8 A Standardized Inventory directly benefits the provider and system managers and indirectly
- 9 enhances patient care. For system managers, it allows for predictable supply orders and cost
- efficiency. Having set quantities and locations for supplies and equipment enhances provider
- proficiency and accountability because the working environment is consistent, regardless of
- where the provider reports to work. Together, this system enhances patient care delivery by
- ensuring the correct amount and type of equipment is always present in a predictable location
- when needed.

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- 16 For primary emergency response apparatus, the standard is based on the Maryland Voluntary
- 17 Ambulance Inspection Program (VAIP) and augmented to fit the Department's needs. Other
- 18 emergency response vehicles are equipped for first response to incidents where they will be
- 19 quickly backed up by regularly dispatched crews.

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- 21 It is understood that changes to apparatus, protocols, and EMS kits may occur at irregular
- intervals. For this reason, this order establishes processes for implementation of changes to
- the Standardized Inventories and establishes posting locations for reference of the "living"
- inventory documents. It also establishes the procedures and accountability processes for day-
- 25 to-day operations.

DEFINTIONS

- > Standardized Inventory: An established amount and arrangement of equipment and supplies for a designated piece of apparatus, jump kit or aid station.
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- Primary Emergency Response Apparatus: Any apparatus that would be normally
- dispatched to an incident where EMS service is anticipated. Typically, these are station-
- based front-line units (Ambulances, Engines, Special Services, supervisor/command
- vehicles).

Voluntary Ambulance Inspection Program (VAIP): The MIEMSS biennial inspection
 program. Establishes a state-wide standard inventory for EMS vehicles. Compliance with the
 program provides a certification for our apparatus which has fiscal, legal, and regulatory
 benefits.

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➤ **Durable Medical Equipment (DME):** Medical equipment that is reusable and not disposed of after each call. Items such as backboards, traction splints, monitors and trauma shears fall into this category.

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> Supply Unit Vending System: The vending machine style EMS supply dispenser at Howard County General Hospital.

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PROCEDURES

- 46 All operational personnel will check their assigned apparatus, using the established EMS
- 47 Standardized Inventories on a daily and weekly basis, at the beginning of each shift.
- Completed monthly inventory checklists are to be turned in to the OIC and digitally filed for accountability.

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A monthly supply inventory shall be completed and forwarded to the Bureau of Logistics, Supply Unit prior to the 15th of each month.

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• It shall include replacement stock for items that expire during that month/beginning of the following month. Unless an expiration date includes an exact day (ex. 09/1/2017), the item is said to expire at the end of the month (ex. 09/2017 = 09/30/2017).

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Monthly EMS supply requisitions to the MDO follow the same timeline.
Expiring stock is NOT to be replaced from any vending system locations.

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INVENTORY TYPES & LOCATIONS:

EMS Standardized Inventories vary by apparatus type and response profile.

- Transport Units
 - All response ready ambulances in the Department are equipped for the Advanced Life Support (ALS) level patient care.

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• Suppression Units – Includes Engines, Trucks and Squads

66 67 68 Basic Life Support (BLS) – at a minimum, all suppression apparatus will be stocked for patient care at the BLS level, as described in the EMS Standardized Inventory for suppression apparatus.

69 70 71 ALS – All front-line engines will be stocked at the ALS level, as described in the EMS Standardized Inventory for suppression apparatus. Any suppression apparatus that is regularly staffed with an ALS provider or is designated as "Paramedic" in staffing shall be ALS equipped.

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- Medical Duty Officer Units
 - Stocked for ALS level care with the addition of specialty care items and limited supplies for restock of transport units.

• Command, Staff, First Responder Vehicles

 These vehicles are stocked to a minimum BLS level of care as described in the EMS Standardized Inventory for First Responder apparatus. First Responder vehicles may be stocked for ALS care as needed but are not intended for prolonged patient care.

• The designated locations of EMS equipment are designed to allow for efficient access by the providers who will be providing care first, e.g., the primary firefighter or ambulance aid.

• EMS kits and bags shall be standardized across all apparatus. The consistent color, style, and configuration of these "jump" kits assures the ability to standardize the location of its contents and weight which enhances patient care and reduces risk for the patient and providers.

The current EMS Standardized Inventories are posted on the Emergency Services Bureau page of the Department's SizeUp website:
 https://hcdfrssizeup.howardcountymd.gov/?cat=14
 Digital copies are posted on the HCDFRS "T Drive", located at T:\Fire\Forms\EMS Forms. Providers should always use the most recent version of the inventories, as posted in these locations.

INVENTORY CHECKS & ACCOUNTABILITY:

Personnel assigned to an apparatus are responsible for assuring the inventory and equipment checks are completed on a daily, weekly and monthly basis. Weekly and monthly checks should be a team effort. EMS inventory checks will be conducted using the posted Standardized Inventory for that apparatus and/or individual kit.

Daily

 At the beginning of each shift, providers will check their assigned apparatus for appropriate inventory stock and properly functioning equipment. The supplies and equipment shall match the amounts, types and placements of stock in the posted inventory for that vehicle/bag. The inventory checklist should be used as a reference, but does not need to be submitted.

Weekly

On weekly apparatus checks, providers will open bags and bins containing EMS supplies and equipment to clean the containers and conduct a thorough inventory check. They will also operate all EMS DME to assure proper function. The appropriate EMS Standardized Inventory check-sheets shall be completed, minus the expiration dates, and submitted through the OIC in the same process as the monthly check.

119 Monthly On the weekly check for an apparatus that falls at the **beginning** of the month, 120 providers shall examine all inventory items for that apparatus, conduct any 121 monthly maintenance on DME and check stock for expiration dates. 122 Stock that is expiring shall be removed and replaced with new stock. 123 Stock that will expire at the end of the coming month will be noted and 124 reported to the station EMS supply manager(s). 125 The expiring supplies will be ordered from the Supply Unit on a 126 one-for-one basis. 127 128 The monthly inventory check shall be conducted using the posted 129 Standardized Inventory checklist. 130 The checklist can be completed digitally or on a printed hardcopy. 131 The completed checklist will be submitted to the OIC. 132 • The OIC will maintain a digital file, for no less than six months, of 133 all completed monthly inventory checks. 134 135 The digital file shall be kept in a Department network folder that is accessible to EMS command officers for accountability purposes. 136 The EMS Standardized Inventory forms are produced in a checklist 137 format that is both printable and electronically fillable. 138 139 Seals for bags/compartments 140 It is acceptable practice to seal a kit or compartment and use the seal number 141 for accountability of the contents. This is useful for managing the infrequently 142 used kit or compartment on certain units such as irregularly staffed BLS 143 transports and utility vehicles. If a seal is used in place of a regular inventory 144 check, the following shall apply: 145 A running inventory, with expiration dates, must be maintained for each 146 sealed item. 147 148 A designated individual and a backup must be assigned to maintain the running inventories of the sealed items. 149 When a seal is broken, the item shall be inventoried for completeness 150 and resealed. The new seal number shall be placed on the running 151 inventory. 152 All sealed items will be opened and inventoried each month. 153 154 EMS Standardized Inventories will be maintained and regulated by EMS Operations 155 through the MDOs. 156 o The inventories will be posted on the Department's intranet (SizeUp) on the 157 Emergency Services Bureau pages. 158 The living inventory documents will be maintained in the EMS 159 Operations/Standardized Inventory file on a designated Department storage 160 drive.

- o Any changes to the EMS Standardized Inventories:
 - Will be reflected immediately online.
 - Will be communicated to the Department via Informational Bulletin, email and Departmental intranet.

ANCILLARY EMS EQUIPMENT STAGING AREAS:

County buildings that house Department offices or personnel shall maintain an ancillary EMS Equipment Staging Area that is stocked to the ALS level for purposes of EMS response on that property, when needed. Only authorized, operational personnel should utilize this equipment and all relevant documentation and reporting is required by the provider in charge of patient care when this equipment is utilized.

SUPPLY USAGE AND RESTOCK:

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- Stock in the EMS kits should be maintained in accordance with the par levels on the EMS Standardized Inventory lists. Overstock is costly and clutters the container which can cause damage and make it difficult to find the item.
- Expiring items shall be replaced through the Supply Unit. They should NOT be replaced from the Supply Unit Vending System.
- Items used for patient care shall be replaced in a one-for-one fashion after the incident. These items should be replaced from the Supply Unit Vending System or MDO, when applicable, or from station stock. EMS supplemental requests must pass through the MDO for replacement medications.
- DME shall be utilized and maintained in accordance with the manufacturer recommendation unless specified by the Department (e.g. glucometer calibration checks).

EFFECTING CHANGE:

- Changes to an EMS Standardized Inventory must be approved by all stakeholders
 (including the Emergency Services Bureau (ESB), Office of the Medical Director (OMD),
 Bureau of Logistics (LOGS), and respective volunteer corporations) before
 implementation. Requests for changes may be submitted using the "Standardized
 Medical Equipment Inventory: Request for Change" form. The completed form is
 submitted to ESB for review and processing.
- The EMS Standardized Inventories are specifically designed to enhance a provider's ability to provide care. Provider input and change requests are strongly encouraged.
- Submitted requests will follow the process outlined in *Attachment A*.
- The standard for obtaining EMS supplies and equipment is through the Department's Bureau of Logistics Supply Unit. Any equipment or supplies obtained outside the standard process shall comply with the EMS Standardized Inventory:
 - Medications packaging (volume, concentration, package type) must be consistent with the EMS Standardized Inventories.
 - Supplies must match sizes & types supplied by the Department (bandage sizes, endotracheal tubes, obstetrical kits, etc.).

205 206 207 208 209	 DME must be of the same manufacturer, model and accessories as supplied by the Department (cots, laryngoscopes, stair chairs). If the size, model, packaging, etc. is not specified in the EMS Standardized Inventory, deviation from the checklist is permitted. Any deviation should be coordinated through ESB and communicated to all operational personnel. 			
210	REFERENCES			
211	Maryland Voluntary Ambulance Inspection Program (VAIP) Standards			
212	SUMMARY OF DOCUMENT CHANGES			
213	New General Order			
214	FORMS/ATTACHMENTS			
215	Attachment A: Request for Change Process/Form			
216	APPROVED			
217 218 219 220 221 222 223 224 225 226 227 228 229 230	John S. Butler, Fire Chief Office of the Fire Chief Author:			
231 232	(See 342)			
232	Richard Leonard, EMS Executive Captain			
234	Emergency Services Bureau			

Attachment A:



Howard County Department of Fire & Rescue

Standardized EMS Inventory Request for Change

Individual requesting change	Station	<u>Shift</u>	Date Submitted to MDO		
Requesting change for the following medical equipment inventory:					
☐ ALS transport vehicle fixed inventory	Advanced Procedures	bag	Oxygen / First Responder bag		
Advanced Airway bag	Pediatric bag		Lifepack 15 Cardiac Monitor		
Spinal Immobilization Kit	Trauma bag		Triage Kit		
Other:					
Requesting the following type of change		Па	ange of item type/size/etc.		
☐ Change of item location ☐ Add Item ☐ Delete Item ☐ Other:					
Requesting change regarding the following item as it appears in the standardized inventory					
Min Max Item	ving nem as it appears in t	Comme	·		
Requesting change to read as follows					
Min Max Item		Comme	<u>nt</u>		
Rationale for change					
Nationale 101 Change					
Submitted to:			Date Submitted		